## STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLUTION CONTROL PROGRAM 1101 RIVERSIDE DRIVE, P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102-0176

## EMISSIONS INVENTORY QUESTIONNAIRE (EIQ) FORM 2.5 ORGANIC LIQUID STORAGE - FIXED ROOF TANK

FACILITY NAME				FIPS COUNTY NO.		PLANT NO.	PLANT NO.		YEAR OF DATA	
Please provide all the following	ng information i	f this form is h	eing used to derive emission	factors for a li	nuid storage tank	with canacities are	eater the	an 250 gallon	s Please include all	
organic liquids, petroleum pro		1 1113 101111 13 1	ening asea to derive emission	1401013 101 4 11	quia storage tarik	with capacities give	Jator tric	an 200 ganon	3. I leade morade an	
[1] TANK INFORMATION	NC									
POINT NO.		TANK ID. NO.		SOURCE CLASSIFICATION CODE (SCC)				SEG. NO.		
				BREATHING						
				WORKING						
COLOR (ROOF)		COLOR (SHELL)		PAINT CONDITION SOLAR ABSORF		SOLAR ABSORPTA	TANCE			
				POOR	GOOD					
DIAMETER (FT) HEIGHT (FT)			LENGTH (FT)	TANK TYPE ROOF TYPE		ROOF TYPE				
				HORIZONTAL U		CONE	CONE DOME			
				☐ VERTICAL		OTHER (SPECIFY):				
CAPACITY (IN THOUSANDS OF GALLONS)  ROOF HEIGHT		(FT)	VAPOR SPACE OUTAGE (FT)	VENT PRESSURE SETTING VENT VAC		VENT VACUUM SET	ITING	TOTAL SOLAR INSULATION FACTOR (BTU/SQ FT)		
[2] CHEMICAL INFOR	MATION									
CAS NUMBER	CHEMICAL			WORKING LOSS PRODUCT FACTOR						
				CRUDE OIL (VALUE = .75) ALL OTHE		ALL OTHER LI	R LIQUIDS (VALUE = 1.0)			
VAPOR MOLECULAR WT				LBT (RANKIN	, ,		D-MIN-AT (RANKINE)			
VAFOR WOLECULAR WI				EST (VARVANCE)			D-WIIV-AI (IVAINNINE)			
LST - [AVERAGE LIQUID SURFACE TEMPERATURE (RANKINE)]				DVTR (RANKINE)			D-MAX-AT (RANKINE)			
AVG: MAX: MIN:										
VP - [VAPOR PRESSURE AT LST (PSIA)]				DVPR (PSI)			D-AVG-AT (RANKINE)			
THROUGHPUT (IN THOUSANDS OF GALLONS)				NUMBER OF TURNOVERS			TURNOVER FACTOR			
,										
[3] VOC EMISSION CA	ALCULATIO	NS								
CALCULATION			FO	RMULA					RESULT	
BREATHING LOSS (LBS/YR)	26.714 X {DIAMETER)^2 X {VAPOR SPACE OUTAGE} X {VAPOR MOLECULAR WEIGHT} X {VP} X [({DVTR} / {LST}) + [({DVPR} - ({VENT PRESSURE SETTING} - {VENT VACUUM SETTING})) / (14.7 - {VP})]] / [{LST} X [1 + (0.053 X {VP} X {VAPOR SPACE OUTAGE})]]									
WORKING LOSS (LBS/YR)	0.0238 X {VAPOR MOLECULAR WT} X {VP} X {THROUGHPUT} X {TURNOVER FACTOR} X {WORKING LOSS PRODUCT FACTOR}									
BREATHING LOSS EMISSION FACTOR (LBS VOC PER THOUSAND GALLONS CAPACITY)	{BREATHING LOSS} / {CAPACITY}									
WORKING LOSS  *MISSION FACTOR  BS VOC PER THOUSAND (ALLONS STORED)  *WORKING LOSS / {THROUGHPUT}										

matches the breathing loss and working loss. Also enter the calculated breathing loss emission factor and working loss emission factor in the VOC box in Section 3, Block 7 of the respective Form 2.0.

Enter the capacity (breathing loss) and throughput (working loss) as the annual throughput in Section 2, Block 1 on separate Forms 2.0 making sure the SCC